

DUPONT E I IMAGING SYS DEPT -- SUVA HP62 - REFRIGERANT GAS MIXTURE
MATERIAL SAFETY DATA SHEET
NSN: 6830013913104
Manufacturer's CAGE: 82348
Part No. Indicator: A
Part Number/Trade Name: SUVA HP62

=====

General Information

=====

Item Name: REFRIGERANT GAS MIXTURE
Company's Name: DU PONT E I DE NEMOURS & CO INC IMAGING SYS DEPT
Company's Street: BARLEY MILL PLZ 22-1356
Company's P. O. Box: 80022
Company's City: WILMINGTON
Company's State: DE
Company's Country: US
Company's Zip Code: 19880-0022
Company's Emerg Ph #: 302-992-2012
Company's Info Ph #: 302-992-2012
Distributor/Vendor # 1: DUPONT
Distributor/Vendor # 1 Cage: 25827
Record No. For Safety Entry: 002
Tot Safety Entries This Stk#: 003
Status: SE
Date MSDS Prepared: 21JUN95
Safety Data Review Date: 16APR96
Supply Item Manager: CX
MSDS Serial Number: BYTDG
Hazard Characteristic Code: G3
Unit Of Issue: CY
Unit Of Issue Container Qty: 24 POUND
Type Of Container: CYLINDER
Net Unit Weight: 24 POUNDS

=====

Ingredients/Identity Information

=====

Proprietary: NO
Ingredient: 1, 1, 1, 2-TETRAFLUOROETHANE
Ingredient Sequence Number: 01
Percent: 4 %
NIOSH (RTECS) Number: 1008365TE
CAS Number: 811-97-2
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

=====

Physical/Chemical Characteristics

=====

Appearance And Odor: CLEAR, COLORLESS LIQUIFIED GAS, SLIGHT ETHEREAL ODOR
Boiling Point: -53F, -47C
Melting Point: NOT GIVEN
Vapor Pressure (MM Hg/70 F): 182 PSIA
Vapor Density (Air=1): NOT GIVEN
Specific Gravity: 1.05
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: > 1 (CL4 = 1)
Solubility In Water: NOT GIVEN

Percent Volatiles By Volume: 100

Corrosion Rate (IPY): UNKNOWN

=====

Fire and Explosion Hazard Data

=====

Flash Point: NONFLAMMABLE

Flash Point Method: TOC

Lower Explosive Limit: NOT GIVEN

Upper Explosive Limit: NOT GIVEN

Extinguishing Media: NONFLAMMABLE. USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE.

Special Fire Fighting Proc: FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL TANKS AND CONTAINERS EXPOSED TO FIRE WITH WATER.

Unusual Fire And Expl Hazrds: CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.

=====

Reactivity Data

=====

Stability: YES

Cond To Avoid (Stability): AVOID OPEN FLAMES AND HIGH TEMPERATURES.

Materials To Avoid: INCOMPATIBLE WITH ALKALI OR ALKALINE METALS - POWDERED AL, ZN, BE, ETC.

Hazardous Decomp Products: HYDROFLUORIC ACID, CARBONYL FLUORIDE.

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): NONE. WILL NOT OCCUR.

=====

Health Hazard Data

=====

LD50- LC50 Mixture: NOT GIVEN FOR PRODUCT AS A WHOLE

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: NO

Health Haz Acute And Chronic: INHALATION MAY CAUSE CNS DEPRESSION, UNCONSCIOUSNESS, IRREGULAR HEARTBEAT, APPREHENSION, DEATH, SUFFOCATION. SKIN CONTACT MAY CAUSE FROSTBITE IF LIQUID OR ESCAPING VAPOR CONTACTS THE SKIN. FROSTBITE-LIKE EFFECTS MAY OCCUR IF THE LIQUID OR ESCAPING VAPOR CONTACTS THE EYE.

Carcinogeni ci ty - NTP: NO

Carcinogeni ci ty - IARC: NO

Carcinogeni ci ty - OSHA: NO

Explanati on Carcinogeni ci ty: THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Signs/Symptoms Of Overexp: DIZZINESS, CONFUSION, INCOORDINATION, DROWSINESS, UNCONSCIOUSNESS, IRREGULAR HEARTBEAT, APPREHENSION, LIGHTHEADEDNESS, FEELING OF FAINTING, DIZZINESS, WEAKNESS, DEATH, FROSTBITE TO CONTACTED TISSUES.

Med Cond Aggravated By Exp: PREEXISTING DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF INCREASED EXPOSURES.

Emergency/First Aid Proc: EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE.

=====

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: USE APPROPRIATE PROTECTIVE EQUIPMENT DURING CLEANUP. VENTILATE AREA, ESPECIALLY LOW OR ENCLOSED PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF-CONTAINED BREATHING APPARATUS FOR LARGE SPILLS OR RELEASES.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: RECLAIM BY DISTILLATION OR REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY. COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Precautions-Handling/Storing: USE WITH SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS. PRODUCT SHOULD NOT BE MIXED WITH AIR FOR LEAK TESTING PURPOSES.

Other Precautions: SHOULD NOT BE USED FOR ANY PURPOSE ABOVE ATMOSPHERIC PRESSURE. CONTACT WITH CHLORINE OR OTHER STRONG OXIDIZING AGENTS SHOULD BE AVOIDED. STORE IN A CLEAN, DRY PLACE. DO NOT HEAT ABOVE 125F. AVOID BREATHING VAPOR.

Control Measures

Respiratory Protection: UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF A LARGE RELEASE OCCURS.

Ventilation: LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION AS REQUIRED TO MAINTAIN EXPOSURE LEVELS.

Protective Gloves: IMPERVIOUS

Eye Protection: CHEMICAL SPLASH GOGGLES

Other Protective Equipment: CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices: WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Suppl. Safety & Health Data: INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

Transportation Data

Trans Data Review Date: 96107

DOT PSN Code: MPU

DOT Proper Shipping Name: REFRIGERANT GASES, N. O. S.

DOT Class: 2.2

DOT ID Number: UN1078

DOT Label: NONFLAMMABLE GAS

IMD PSN Code: NAP

IMD Proper Shipping Name: REFRIGERANT GAS, N. O. S. o

IMD Regulations Page Number: 2176

IMD UN Number: 1078

IMD UN Class: 2(2.2)

IMD Subsidiary Risk Label: -

IATA PSN Code: VQM

IATA UN ID Number: 1078

IATA Proper Shipping Name: REFRIGERANT GAS, N. O. S. *

IATA UN Class: 2.2

IATA Label: NON-FLAMMABLE GAS

AFI PSN Code: VQM

AFI Prop. Shipping Name: REFRIGERANT GASES, N. O. S.

AFI Class: 2.2

AFI ID Number: UN1078

AFI Basic Pac Ref: A6.3, A6.5

N. O. S. Shipping Name: CONTAINS PENTAFLUOROETHANE, 1, 1, 1- TRIFLUORO- ETHANE,
1, 1, , 1, 2- TETRAFLUOROETHANE

=====

Disposal Data

=====

=====

Label Data

=====

Label Required: YES
Technical Review Date: 16APR96
MFR Label Number: NONE
Label Status: F
Common Name: SUVA HP62
Chronic Hazard: NO
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Moderate: X
Fire Hazard-Slight: X
Reactivity Hazard-Slight: X
Special Hazard Precautions: USE WITH SUFFICIENT VENTILATION TO KEEP
EMPLOYEE EXOSURE BELOW RECOMMENDED LIMITS. PRODUCT SHOULD NOT BE MIXED WITH
AIR FOR LEAK TESTING PURPOSES. FIRST AID: EYES: FLUSH WITH WATER FOR 15
MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE
CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET
MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET
MEDICAL ATTENTION. INGESTION: NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: DU PONT E I DE NEMOURS & CO INC IMAGING SYS
DEPT
Label Street: BARLEY MILL PLZ 22- 1356
Label P. O. Box: 80022
Label City: WILMINGTON
Label State: DE
Label Zip Code: 19880- 0022
Label Country: US
Label Emergency Number: 302- 992- 2012